Patent

In Re Application of: Michael D. Ruehle	) )
Application No.: 09/965,916	) Art Unit: 2152
Filed: September 28, 2001	) Attorney Docket No.: 42390.P11975
For: METHOD AND APPARATUS FOR PERFORMING MODULAR MULTIPLICATION	) ) )

Commissioner for Patents Washington, D.C. 20231

RECEIVED

APR 0 9 2002

## PRELIMINARY AMENDMENT

**Technology Center 2100** 

Dear Sir:

Prior to examining the above-referenced U.S. patent application, please make the following amendments:

## IN THE SPECIFICATION

Please replace paragraph 3 beginning on page 2 with the following rewritten paragraph:

-- Conventional modular multipliers often include a linear systolic array or "chain" of processing elements (PEs) implemented in hardware such as an application-specific integrated circuit (ASIC) or a programmable logic device such as a field programmable gate array (FPGA). In conventional modular multipliers, a given processing element performs a portion of a modular multiplication operation by processing data and then passing it to its neighboring or adjacent PEs in a given clock cycle. In the next clock cycle, the original processing element remains idle while the neighboring processing elements process the received data and pass the processed data back, after which the original processing element may spend another cycle computing. Thus, in most conventional modular multipliers, each processing element does useful work every other clock cycle and is idle the remainder of the time. In one traditional modular multiplier, these idle



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FORM			Michael D. Ruehle		
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		Examiner Name	Not yet assigned APR 0 9		
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	ENCL	OSURES (check	all that apply)		
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Fee Attached	Drawing	g(s)	Appeal Communication to Board of Appeals and Interferences		
Amendment / Reply (Preliminary)	Licensir	ng-related Papers	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)		
After Final	Petition Petition to Convert to a Provisional Application		Proprietary Information  Status Letter		
Affidavits/declaration(s)					
Substitute of Time Resource	Change	of Attorney, Revocation of Correspondence	Other Enclosure(s) (please		
Extension of Time Request	Address Termina	s al Disclaimer	identify below):  Postcard; and Check		
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Certified Copy of Priority Document(s)	Remarks	1			
Response to Missing Parts/					
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SIGNATI	URE OF APPLI	ICANT, ATTORNEY, OR	AGENT		
Firm Justin M. Di			Blakely Sokoloff Taylor & Zafman 12400 Wilshire Boulevard Seventh Floor		
or Individual name		Α	Los Angeles, CA 90025-1026		
Signature					
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## Patent fees are subject to annual revision.

138.00

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TOTAL AMOUNT OF PAYMENT

Complete if Known		
09/965,916		
September 28, 2001		
Michael D. Ruehle		
Not yet assigned		
Not yet assigned		
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	09/965,916 September 28, 2001 Michael D. Ruehle Not yet assigned Not yet assigned	

METHOD OF PAYMENT	FEE CALCULATION (cor	ntinued)		
The Commissioner is hereby authorized to charge	3. ADDITIONAL FEES			
indicated fees and credit any overpayments to:  Deposit	Large Small			
Account Number 02-2666	Entity Entity  Fee Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	n Fee Paid		
Deposit Account Name  Blakely Sokoloff Taylor & Zafman LLP	105 130 205 65 Surcharge - late filing fee or or	ath		
X Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127 50 227 25 Surcharge - late provisional fil cover sheet	ing fee or		
Applicant claims small entity status.	139 130 139 130 Non-English specification	<u> </u>		
See 37 CFR 1.27	147 2,520 147 2,520 For filing a request for ex part	e reexamination		
2. X Payment Enclosed: X Check Credit card Money Order Other	112 920* 112 920* Requesting publication of SIR Examiner action	prior to		
FEE CALCULATION	113 1,840* 113 1,840* Requesting publication of SIR Examiner action	RECEIVED		
1. BASIC FILING FEE	115 110 215 55 Extension for reply within first	month T		
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Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	117 920 217 460 Extension for reply within third	month		
101 740 201 370 Utility filing fee	118 1,440 218 720 Extension for reply within four	h miechnology Center 210		
106 330 206 165 Design filing fee	128 1,960 228 980 Extension for reply within fifth	month		
107 510 207 255 Plant filing fee	119 320 219 160 Notice of Appeal	<u> </u>		
108 740 208 370 Reissue filing fee	120 320 220 160 Filing a brief in support of an a	ppeal		
114 160 214 80 Provisional filing fee	121 280 221 140 Request for oral hearing			
	138 1,510 138 1,510 Petition to institute a public us	e proceeding		
SUBTOTAL (1) (\$) -0-	140 110 240 55 Petition to revive - unavoidable	•		
2. EXTRA CLAIM FEES	141 1,280 241 640 Petition to revive - unintention	al		
Fee from Ext <u>ra Claim</u> s <u>below</u> <u>Fee Paid</u>	142 1,280 242 640 Utility issue fee (or reissue)	<u> </u>		
Total Claims 6 -5** = 1 X 84 = 84	143 460 243 230 Design issue fee			
Independent 33 - 30** = 3 X 18 = 54	144 620 244 310 Plant issue fee			
Multiple Dependent = 138	122 130 122 130 Petitions to the Commissioner	<u> </u>		
	123 50 123 50 Processing fee under 37 CFR	1.17(q)		
Large Entity Small Entity Fee Fee Fee Fee Description	126 180 126 180 Submission of Information Dis	closure Stmt		
Fee Fee Fee Fee Fee Description Code (\$) Code (\$)  103 18 203 9 Claims in excess of 20	581 40 581 40 Recording each patent assign property (times number of pro			
102 84 202 42 Independent claims in excess of 3	146 740 246 370 Filing a submission after final (37 CFR § 1.129(a))	rejection		
104 280 204 140 Multiple dependent claim, if not paid	149 740 249 370 For each additional invention			
109 84 209 42 ** Reissue independent claims over original patent	examined (37 CFR § 1.129(b)	)		
110 18 210 9 ** Reissue claims in excess of 20	179 740 279 370 Request for Continued Examin	nation (RCE)		
and over original patent	169 900 169 900 Request for expedited examir of a design application	nation		
SUBTOTAL (2) (\$) 138.00	Other fee (specify)			
	*Reduced by Basic Filing Fee Paid SUBTOTAL	(\$) -0-		
**or number previously paid, if greater; For Reissues, see above	Troducta by Dasio Fining Fee Faid. 305 TOTAL	(4)		

SUBMITTED BY				Complete (if applicable)		
Name (Print∕Type)	Justi	n M Dillon	Registration No. (Attorney/Agent)	42,486	Telephone	512/330-0844
Signature	1	W /	Ť		Date	3/25/02